

COURSE NUMBER: FHWA-NHI-142005**COURSE TITLE:** NEPA and Transportation Decision Making

This course considers FHWA's policies and procedures for applying the National Environmental Policy Act (NEPA) to the project development and decision-making processes related to transportation facilities. The course examines the evolution of environmental policy and the integration of social, environmental and economic factors into the framework of laws, regulations, policies, and guidance, which assist in achieving a decision on a transportation project that is in the best overall public interest.

The course emphasizes utilization of the Council on Environmental Quality and FHWA's regulations and guidance for implementing NEPA and Section 4(f) of the Department of Transportation Act, as well as initiatives for interagency coordination and streamlining the project development process. Also emphasized are public involvement, Title VI/Environmental Justice, FHWA's policy for mitigation and enhancement, and the role of transportation in achieving sustainable development.

OUTCOMES:

Upon completion of the course, participants will be able to:

- Use the NEPA principles in the development of transportation projects
- Use the NEPA umbrella concept in transportation decision making
- Explain the roles and responsibilities of participants in the NEPA process
- Employ a reasoned, collaborative process when developing and evaluating alternatives
- Practice balancing an array of interests and values in making transportation decisions
- List the milestones in transportation planning that link to the NEPA project development process
- Describe documentation requirements of the NEPA process
- Employ environmental streamlining concepts of leadership, stewardship, and conflict resolution in managing the NEPA process

TARGET AUDIENCE:

FHWA, State DOT (including consultants acting on behalf of the State), Federal and State environmental resource agencies, local government, and MPOs who participate in the transportation decision making process. We strongly encourage the sponsoring organization to invite a mix of planning and environmental staff from these agencies.

FEE: \$400 Per Participant

LENGTH: 3.0 Days (CEU: 1.8 Units)

CLASS SIZE: Minimum: 20; Maximum: 35

NHI Training Program Manager: Mila Plosky • (703) 235-0527 • mila.plosky@fhwa.dot.gov

Technical Information: Aung Gye • (202) 366-2167 • aung.gye@fhwa.dot.gov

Learn the basics of NEPA—whenever and wherever—by registering for the newly-developed, Web-based NEPA course: FHWA-NHI-142052 Basics of NEPA and Transportation Decision Making. Designed as a basic overview of the National Environmental Policy Act (NEPA) and the transportation project development process, this course presents information on environmental impact analysis, mitigation requirements, alternatives analysis, public involvement, interagency coordination, and documentation. This course is a pre-requisite for advanced NEPA training offerings.



COURSE NUMBER: FHWA-NHI-142007

COURSE TITLE: Fundamentals and Abatement of Highway Traffic Noise

This course covers the requirements of 23 CFR Part 772, Procedures for Abatement of Highway Traffic Noise and Construction Noise, and the noise requirements of the National Environmental Policy Act of 1969. The course provides both technical and policy training.

OUTCOMES:

Upon completion of the course, participants will be able to:

- Perform existing noise measurements with a sound level meter
- Utilize noise fundamentals to accomplish highway traffic noise prediction
- Identify highway traffic noise impacts
- Conduct analyses of noise abatement measures, including preliminary noise barrier analyses
- Prepare all necessary documentation to fulfill FHWA noise requirements
- Communicate the results of highway traffic noise analyses in meetings, correspondence, phone calls, conversations, etc.

TARGET AUDIENCE:

Federal, State, and local personnel responsible for the analysis and abatement of highway traffic noise impacts.

FEE: \$460 Per Participant

LENGTH: 3.5 Days (CEU: 2.1 Units)

CLASS SIZE: Minimum: 20; Maximum: 30

NHI Training Program Manager: Mila Plosky • (703) 235-0527 • mila.plosky@fhwa.dot.gov

Technical Information: Bob Armstrong • (202) 366-2073 • robert.armstrong@fhwa.dot.gov

A new 2.5-day basic Highway Traffic Noise course is under development. Look for Spring 2006 availability.



COURSE NUMBER: FHWA-NHI-142018

COURSE TITLE: Functional Assessment of Wetlands

This course provides an introduction to assessing wetlands impacts and mitigation planning based on hydrogeomorphic principles of wetlands analysis. A brief overview of recent changes in wetland regulations is included. The course is comprised of both classroom and field exercises demonstrating the wetlands assessment and analysis techniques including wetland regulations, wetland ecology, and mitigation planning.

OUTCOMES:

Upon completion of the course, participants will be able to:

- Recognize requirements and basic principles for regulatory compliance, wetlands impact assessment, and mitigation under National Environmental Policy Act of 1969 (NEPA) and Section 404, Clean Water Act, including the 404b(1) guidelines
- Identify different wetland types, and be familiar with common definitions, delineation requirements, and wetlands classification, including the U.S. Fish and Wildlife Service and Hydrogeomorphic (HGM) functional classifications
- Describe the common ecological functions and values of wetlands
- Identify principles, approaches, and policies for compensatory mitigation, including wetland banking and in lieu fee plans
- Recognize the HGM Assessment methodology
- Demonstrate functional assessments of wetlands for alternatives analysis and selection for impact assessment according to principles of HGM, Evaluation of Planned Wetlands (EPW), and Wetland Evaluation Techniques (WET)
- Apply HGM, WET, EPW methods to planning and development of wetland mitigation projects

TARGET AUDIENCE:

State DOT personnel who have professional/technical responsibilities relating to managing wetlands and impacts in a transportation environment. Other Federal, State, local government and industry personnel with related responsibilities may be permitted to attend on a space-available basis. A basic understanding of Federal regulations concerning wetlands will be helpful. In addition, participants need at least one of the following: (1) experience in the highway project development process; (2) experience in highway project planning and design; (3) experience in natural resources regulation and management; or (4) experience in ecological assessment and mitigation design.

FEE: \$530 Per Participant

LENGTH: 4.0 Days (CEU: 2.4 Units)

CLASS SIZE: Minimum: 20; Maximum: 30

NHI Training Program Manager: Mila Plosky • (703) 235-0527 • mila.plosky@fhwa.dot.gov

Technical Information: Paul Garrett • (720) 963-3071 • paul.garrett@fhwa.dot.gov

COURSE NUMBER: FHWA-NHI-142036

COURSE TITLE: Public Involvement in the Transportation Decision-Making Process

Public involvement is much more than public hearings and involves creative thinking, the willingness and ability to interact openly, and sensitivity to the public's preferred forms of communication and participation. Public involvement is about giving the public an opportunity to influence transportation decision making. The public should have a role in every phase of decision making, including the design of the public involvement plan itself. Successful public involvement means addressing the public's procedural, psychological, and substantive needs. By focusing on interests—rather than positions—public involvement can become more meaningful, as well as useful.

OUTCOMES:

Upon completion of the course, participants will be able to:

- Identify key decision points where the public can and should be involved
- Describe different publics and engage them through targeted techniques
- Select and apply a variety of specific techniques to get information out to the public, as well as to obtain input from the public
- Differentiate between positions and interests and ask questions that will elicit interests and lead toward problem solving
- Identify and adapt to different cultural sensitivities
- Develop public involvement plans
- Integrate the public-involvement process with the decision-making process

TARGET AUDIENCE:

Federal, State, and local transportation agency staff, metropolitan planning organization personnel, transit operators, consultants, and others who are responsible for planning, implementing, or participating in any phase of the public involvement process.

FEE: \$400 Per Participant

LENGTH: 3.0 Days (CEU: 1.8 Units)

CLASS SIZE: Minimum: 20; Maximum: 30

NHI Training Program Manager: Mila Plosky • (703) 235-0527 • mila.plosky@fhwa.dot.gov

Technical Information: Brenda Kragh • (202) 366-2064 • brenda.kragh@fhwa.dot.gov



This course has been blended with the National Transit Institute's Public Involvement course to provide consistent content for all participants.

COURSE NUMBER: FHWA-NHI-142042
COURSE TITLE: Fundamentals of Title VI/Environmental Justice



Environmental justice and Title VI apply to every stage of transportation programs. USDOT and its partners are committed to nondiscrimination in all Federal-aid programs. Many opportunities exist to establish partnerships with other public and private organizations to create more livable communities. This course presents a framework for using a variety of approaches and tools for accomplishing environmental justice goals.

OUTCOMES:

- Upon completion of the course, participants will be able to:
- Define environmental justice and describe its relationship to Title VI of the Civil Rights Act of 1964
 - Explain the fundamental principles of environmental justice
 - Apply the principles of environmental justice to transportation decisions
 - Identify how environmental justice applies to every stage of transportation decision making
 - Describe the benefits of environmental justice in transportation decision making
 - Develop proactive strategies, methods, and techniques to implement environmental justice in transportation programs and projects

TARGET AUDIENCE:

Federal, State, and local transportation agency transit or planning personnel (including consultants acting on their behalf) who interact with minority and low-income communities. State and local agency personnel providing community services. Elected officials and their representatives.

FEE: \$270 Per Participant

LENGTH: 2.0 Days (CEU: 1.2 Units)

CLASS SIZE: Minimum: 20; Maximum: 30

NHI Training Program Manager: Mila Plosky • (703) 235-0527 • mila.plosky@fhwa.dot.gov

Technical Information: David Kuehn • (202) 366-6072 • david.kuehn@fhwa.dot.gov

Online courses consist of interactive instructional material in Web-based format that can be accessed from any computer with an Internet connection. Log into your courses at a time that is convenient for you and proceed through the course at your own pace. For more information about online courses contact Debbie Gwaltney at (202) 366-9379 or debbie.gwaltney@fhwa.dot.gov.



COURSE NUMBER: FHWA-NHI-142043

COURSE TITLE: The CMAQ Program: Purpose and Practice

This is a newly developed course in concert with the EPA, Department of Energy, and Federal Transit Administration.

This course provides an overview of the Congestion Mitigation and Air Quality Improvement (CMAQ) Program, a \$14 billion funding program dedicated to improving air quality in the country's nonattainment and maintenance areas. The course explains the underlying principles of the CMAQ program, including how it fits within the overall Federal-aid Highway Program; the programs objectives under Title 23 of the United States Code; and its relationship to the Clean Air Act and air quality planning. Finally, the course will describe eligibility for the CMAQ program, reporting requirements, and discuss how the program is being implemented across the country.

OUTCOMES:

Upon completion of the course, participants will be able to:

- Explain the underlying principles, including the genesis and background of the CMAQ program
- Outline the roles and responsibilities of Federal, state, and local agencies in implementing the CMAQ program
- Explain how CMAQ funding levels are established at the Federal and State levels and how States distribute CMAQ funding throughout the State
- Apply eligibility requirements
- Describe CMAQ project selection procedures and methods, including solicitation of proposals for CMAQ funding, project selection, and programming in the metropolitan and statewide Transportation Improvement Program (TIP)
- Describe CMAQ implementation requirements, including obligation of funds, reimbursement, the need for matching funds, reporting of estimated emissions benefits and evaluation

TARGET AUDIENCE:

Staff from State and local transportation agencies; State and local air quality agencies; metropolitan planning organizations; FHWA, FTA, EPA, and DOE. Clean Cities coordinators, potential project sponsors from the public and private sectors, and consultants working in transportation/air quality.

FEE: \$270 Per Participant

LENGTH: 2.0 Days (CEU: 1.2 Units)

CLASS SIZE: Minimum: 20; Maximum: 30

NHI Training Program Manager: Mila Plosky • (703) 235-0527 • mila.plosky@fhwa.dot.gov

Technical Information: Michael Koontz • (202) 366-2076 • michael.koontz@fhwa.dot.gov



See the inside front cover of the catalog for a list of NHI contacts.

COURSE NUMBER: FHWA-NHI-142044**COURSE TITLE:** Implications of Air Quality Planning for Transportation

The Clean Air Act Amendments (CAAA) of 1990, the Intermodal Transportation Efficiency Act of 1991 (ISTEA), and the Transportation Equity Act for the 21st Century (TEA-21) reinforced the close linkage between clean air goals and transportation investments. These statutes also specify requirements that apply to transportation and air quality agencies throughout the United States. However, after more than ten years of implementation, it is clear that more educational opportunities are needed to explain how clean air and transportation rules and regulations interrelate. This course was developed to provide this linkage.

The course goes beyond the statutes to explain how the integrated transportation and air quality planning process has been defined and reinforced over the past decade by regulations, guidance, and litigation. It provides a context for the various statutory and regulatory requirements, including a comprehensive review of the 1990 CAAA requirements, Environmental Protection Agency (EPA) policies related to transportation, and the process of developing State Implementation Plans (SIPs). It also provides information on emission trends, forecasting techniques, technology improvements, emerging issues, and demonstrates how transportation planning and air quality planning fit together under the Transportation Conformity Rule. Finally, it includes hands-on information based upon practitioners' experiences, a review of key court cases, and practical exercises which enable participants to reinforce the classroom instructional materials through addressing real-life challenges they may face within their organizations or agencies.

OUTCOMES:

Upon completion of the course, participants will be able to:

- Explain to agency officials, elected officials, and others why clean air requirements exist
- Identify key Federal laws, regulations, and policies related to transportation-air-quality planning activities
- Describe how vehicle emission budgets and transportation control strategies are developed and their relationship to the SIP
- Identify agency conformity responsibilities, and explain how key conformity objectives relate to other transportation-air-quality planning processes
- Describe key components of the transportation planning and project development processes related to air quality planning
- Describe how stakeholder interactions affect air quality and transportation planning

TARGET AUDIENCE:

The course is intended for transportation and air quality planners and engineers from State and local departments of transportation (DOT), metropolitan transportation organizations (MPO), transit agencies, Federal agencies (e.g., Federal Highway Administration, Federal Transit Administration, Environmental Protection Agency, Department of Energy, etc.), and State and local environmental agencies. Others include transportation and environmental consultants, public officials and staff members, community and interest groups, as well as other stakeholders in the planning process (e.g., Clean Cities, environmental organizations, chambers of commerce, Fleet Managers, etc.).

FEE: \$400 Per Participant

LENGTH: 3.0 Days (CEU: 1.8 Units)

CLASS SIZE: Minimum: 20; Maximum: 30

NHI Training Program Manager: Mila Plosky • (703) 235-0527 • mila.plosky@fhwa.dot.gov

Technical Information: Michael Koontz • (202) 366-2076 • michael.koontz@fhwa.dot.gov

COURSE NUMBER: FHWA-NHI-142045
COURSE TITLE: Pedestrian Facility Design

This course was developed to provide information and application opportunities for those involved in the design of pedestrian facilities. The Americans with Disabilities Act (ADA) requires newly constructed and altered sidewalks to be accessible and usable for people with disabilities, and accessibility improvements need to be implemented for existing facilities. To emphasize the importance of planning for pedestrians, the instruction centers on two case examples: one involving corridor design issues, one involving intersection design issues. Participants are engaged through lecture, discussion, video demonstrations of problem areas in corridors and intersections, small group problem identification, and the development of design alternatives.

OUTCOMES:

Upon completion of the course, participants will be able to:

- List the characteristics of pedestrians and motorized traffic that influence pedestrian facility design
- Apply the concepts of universal design and applicable design reference material to redesigning an existing location and/or designing a new location that meets the needs of motorized and nonmotorized users
- Use the reference manual provided in the course to support design decisions for the case example
- Given a case example, identify potential conflicts between pedestrians and other traffic and propose design options that improve access and safety
- Given a case example, analyze the network for improvement options to meet the needs of pedestrian and other traffic

TARGET AUDIENCE:

Engineers with planning, design, construction, or maintenance responsibilities; pedestrian and bicycle specialists; planners; disability and orientation specialists, transportation planners, architects, landscape architects, as well as decision makers at the project planning level.

FEE: \$310 Per Participant (Fee includes one copy of the AASHTO guide described below.)

LENGTH: 1.5 Days (CEU: 0.9 Units)

CLASS SIZE: Minimum: 20; Maximum: 30

NHI Training Program Manager: Mila Plosky • (703) 235-0527 • mila.plosky@fhwa.dot.gov

Technical Information: John Fegan • (202) 366-5007 • john.fegan@fhwa.dot.gov

This course was recently updated to complement a new AASHTO publication, "Guide for the Planning, Design, and Operation of Pedestrian Facilities."
The course length is now 1.5 days.



COURSE NUMBER: FHWA-NHI-142046

COURSE TITLE: Bicycle Facility Design



Bicycle facility design is an emerging subject. The availability of Federal, State, and local transportation funding for bicycle facilities that serve transportation and recreational users is resulting in a dramatic increase in the number of facilities being planned and built. Although there are no Federal design standards for bicycle facilities, a newly adopted "American Association of State Highway and Transportation Officials (AASHTO) Guide for the Development of Bicycle Facilities," or a modification thereof, is being used by many States and localities as the design guide. However, designing bicycle facilities often requires not only the use of the AASHTO guide as well as other documents, but also the application of engineering judgment where specific information is not provided. This course will assist planners and designers in learning how to apply the existing standards and how to deal with other technical issues involved.

OUTCOMES:

Upon completion of the course, participants will be able to:

- List the needs of bicyclists as facility users
- Identify common roadway and traffic conditions that affect bicyclists
- Describe the characteristics of a roadway and a shared-use path that are designed to accommodate bicyclists
- List the benefits to the transportation system of accommodating bicyclists with different abilities
- Recognize opportunities to accommodate bicyclists during the planning, design, construction, and operational phases of a project

TARGET AUDIENCE:

Federal, State, or local engineers with planning, design, construction, or maintenance responsibilities; bicycle specialists; transportation planners; landscape architects, as well as decision makers at the project planning level.

FEE: \$260 Per Participant (Fee includes a copy of the AASHTO Guide for the Development of Bicycle Facilities.)

LENGTH: 1.5 Days (CEU: 0.9 Units)

CLASS SIZE: Minimum: 20; Maximum: 30

NHI Training Program Manager: Mila Plosky • (703) 235-0527 • mila.plosky@fhwa.dot.gov

Technical Information: John Fegan • (202) 366-5007 • john.fegan@fhwa.dot.gov



This course was recently updated and expanded to 1.5 days.

COURSE NUMBER: FHWA-NHI-142047

COURSE TITLE: Water Quality Management of Highway Runoff



Surrounding land uses, vehicle fleets, dust fall and even precipitation are among major sources of highway runoff pollutants. Vehicles contribute to the pollutant load through normal operations, spills of oil and gas, leakages and traffic crashes. Highway maintenance activities such as applications of road de-icing agents, fertilizers, pesticides and herbicides also contribute to the pollutant loading from highways. And the most common resulting contaminants in highway runoff are heavy metals, inorganic salts, aromatic hydrocarbons and suspended solids that accumulate on the road surface. Highway and other urban runoff have significantly degraded the water quality of thousands of miles of streams nationwide.

In reaction to the impact of human activity on water quality, the Clean Water Act (CWA) was passed in 1972 in order to restore and maintain the chemical, physical, and biological integrity of the Nation's waters. The CWA set a national goal that all waters of the U.S. be fishable and swimmable. The Act regulates discharges to waters of the United States through permits issued under the National Pollution Discharge Elimination System (NPDES) permitting program. This permitting program addresses stormwater discharges associated with urban areas and certain industrial activities, including transportation facilities, and has placed extensive requirements on State Transportation Agencies for managing runoff water quality. Understanding the legal responsibilities (Total Maximum Daily Loads, NPDES Phase II, Section 404, etc.), terminology, and the general roles of players in the regulatory process is critical in order to properly plan for, budget and implement water quality management.

The intent of the course is to provide a basic understanding of water quality parameters, processes, requirements, and Best Management Practices (BMPs) in order to provide guidance to the transportation community on how to mitigate impacts and protect water quality. This course shares approaches and technologies for the water quality management of highway stormwater runoff, including the effective maintenance, inspection and performance evaluation of BMPs.

OUTCOMES:

Upon completion of the course, participants will be able to:

- Identify and characterize the quantity and quality of highway runoff
- Describe how highway runoff can affect ecosystems
- List major Federal requirements that apply to management of highway runoff
- Explain how to select a mitigation strategy from a watershed perspective
- Describe design concepts and considerations in selecting and siting appropriate Best Management Practices (BMPs) for controlling highway runoff
- Develop conceptual designs for various BMPs considering: treatment targets, design requirements, BMP performance goals, siting and maintenance considerations, etc.
- Explain how to integrate mitigation of highway runoff impacts into the project development process
- Discuss the importance of BMP inspection, performance evaluation, monitoring, and maintenance

TARGET AUDIENCE:

This course is designed for individuals involved with managing highway runoff water quality. The audience includes Federal, State and local environmental and maintenance specialists, hydraulic and design engineers, State and local regulators, consultants, and others involved in transportation-related water quality issues.

FEE: \$270 Per Participant (Bring a basic calculator to class.)

LENGTH: 2.0 Days (CEU: 1.6 Units)

CLASS SIZE: Minimum: 20; Maximum: 30

NHI Training Program Manager: Mila Plosky • (703) 235-0527 • mila.plosky@fhwa.dot.gov

Technical Information: Patricia Cazenias • (202) 366-4085 • patricia.cazenias@fhwa.dot.gov

COURSE NUMBER: FHWA-NHI-142049
COURSE TITLE: Beyond Compliance: Historic Preservation in Transportation Project Development



The revised regulation implementing Section 106 of the National Historic Preservation Act (NHPA) has fundamentally changed the way in which Federal agencies address effects to places of historical and cultural importance in transportation planning and project development. The new Section 106 regulation strongly encourages early and close coordination between Section 106 activities and the requirements of the National Environmental Policy Act (NEPA), as well as clarifying consultation with Native Americans, local communities, and the public. It gives agencies greater flexibility and streamlines the Section 106 consultation process by ending routine review of projects by the Advisory Council on Historic Preservation (ACHP) and by establishing a number of "program alternatives" that allow agencies to customize and streamline their Section 106 compliance process.

This course is designed to help transportation professionals meet the new requirements of the Section 106 regulations and take advantage of the greater flexibility and autonomy offered by the recent revisions. The course focuses on the fundamentals of NEPA, Section 106, and Section 4(f) of the Department of Transportation Act, and provides techniques for coordinating transportation planning, project development and compliance with these three laws. The emphasis is on practical approaches for real-world situations and the importance of balancing stewardship and project delivery.

OUTCOMES:

Upon completion of the course, participants will be able to:

- Identify key historic preservation laws and other authorities
- Describe the NEPA transportation decision-making process
- Describe the Section 106 process
- Define roles and responsibilities of all parties in the Section 106 process
- Describe the relationship among Section 106, NEPA project development and Section 4(f)
- Identify principles and opportunities for environmental streamlining and stewardship

TARGET AUDIENCE:

Those involved or affected by the Federal-aid Highway program, including, staff from State DOTs, MPOs, FHWA headquarters and field offices, City and County governments, Tribal governments, Consultants, State and Tribal Historical Preservationists (SHPO/THPO), and other Federal and State resource agencies that deal with transportation issues.

FEE: \$400 Per Participant

LENGTH: 3.0 Days (CEU: 1.8 Units)

CLASS SIZE: Minimum: 20; Maximum: 30

NHI Training Program Manager: Mila Plosky • (703) 235-0527 • mila.plosky@fhwa.dot.gov

Technical Information: MaryAnn Naber • (202) 366-2060 • maryann.naber@fhwa.dot.gov

Have questions about training and scheduling?
 Contact the NHI Training Team for more information.



COURSE NUMBER: FHWA-NHI-142050

COURSE TITLE: Context Sensitive Solutions



Context sensitive solutions (CSS)—also known as Context sensitive design—is a collaborative, interdisciplinary approach to a transportation project that involves stakeholders in the development of a transportation facility that equally addresses safety, mobility, and the preservation of scenic, aesthetic, historic, and environmental resources and community values. Implementation of the CSS process will deliver benefits to an agency, for example, effective and timely decisions, gaining public trust and support, building positive relationships with resource agencies, delivering safe and financially feasible project solutions, and improving the overall project delivery process.

FHWA's key strategy is to work with its partners to ensure that highway facilities balance local, regional, and national concerns with the scenic, aesthetic, historic, and natural environment, and that they add value to the community. FHWA provides technical assistance to State DOTs in applying CSS concepts within their agencies. FHWA also directly applies CSS concepts within its agency via the Federal Lands Highway (FLH) office, which has an established reputation and expertise in planning, designing and constructing context sensitive transportation facilities.

This course will provide participants with tools and techniques to effectively deliver timely and successful transportation projects.

OUTCOMES:

Upon completion of the course, participants will be able to:

- Explain the CSS' collaborative, interdisciplinary approach to a transportation project (planning through construction stage) and its associated benefits
- Describe the importance of effective and timely decision making by ensuring early and continuous involvement of all project stakeholders
- Describe the flexibility afforded in applying industry design standards (e.g. AASHTO "Greenbook") while maintaining or improving roadway safety performance
- Explain the importance of achieving environmental sensitivity
- Discuss how aesthetics and incorporation of community values and themes are an integral part of a good design
- Name the FLH and the CSS pilot States "best practices"
- Apply flexibility in highway and bridge design without compromising safety
- Describe the tools and techniques available to obtain consensus among all the project's stakeholders
- Apply the course materials and related tools to deliver timely and successful CSS projects

TARGET AUDIENCE:

The target audience for this course is broad and includes Federal, State, and local highway and transportation agencies located within the U.S., consulting firms, private industry, universities, and other national and international entities engaged in any aspect of the planning, design, construction, and management of transportation projects. Professionals such as transportation planners, environmental specialists, highway, bridge, construction, design engineers, and agency managers should attend.

FEE: \$400 Per Participant

LENGTH: 3.0 Days (CEU: 1.8 Units)

CLASS SIZE: Minimum: 20; Maximum: 40

NHI Training Program Manager: Bill Williams • (703) 235-0539 • bill.williams@fhwa.dot.gov

Technical Information: Jack VanDop • (703) 404-6201 • Jack.VanDop@fhwa.dot.gov

COURSE NUMBER: FHWA-NHI-142054

COURSE TITLE: Design and Implementation of Erosion and Sediment Control

A joint effort between FHWA and the Environmental Protection Agency (EPA), this course reflects the agencies' commitment to providing education and training on planning, design, implementation, enforcement, inspection, and maintenance strategies to control erosion and sediment on highway construction projects, as well as to ensure that regulatory issues are addressed accurately and uniformly. Each discipline involved in a highway construction project has a different set of priorities. Reflecting NHI's commitment to learner-centered training, the course offers participants opportunities for discussion and joint problem solving, through which they will gain information about the roles and responsibilities of other team members.

OUTCOMES:

Upon completion of the course, participants will be able to:

- Describe the components of an erosion and sediment control (ESC) plan
- List the sources of information for the ESC plan
- Identify management practices and related management measures that are appropriate for typical situations and for a case example
- List typical construction and inspection problems. Describe both suitable prevention strategies and remedies for failure
- Link Federal and State environmental regulations to the components of the ESC plan

TARGET AUDIENCE:

A mix of Federal, State, and local highway design, construction, inspection and maintenance staff; environmental agency representatives, as well as consultants and members of the construction industry are encouraged to attend to provide their perspectives, learn each other's responsibilities, and explore an array of options to erosion and sediment control.

FEE: \$270 Per Participant

LENGTH: 2.0 Days (CEU: 1.2 Units)

CLASS SIZE: Minimum: 20; Maximum: 30

NHI Training Program Manager: Mila Plosky • (703) 235-0527 • mila.plosky@fhwa.dot.gov

Technical Information: Patricia Cazenias • (202) 366-4085 • patricia.cazenias@fhwa.dot.gov



How can we help? We want to assist you with your training needs. Please complete the 'How Can We Help' survey card in the back of the catalog.